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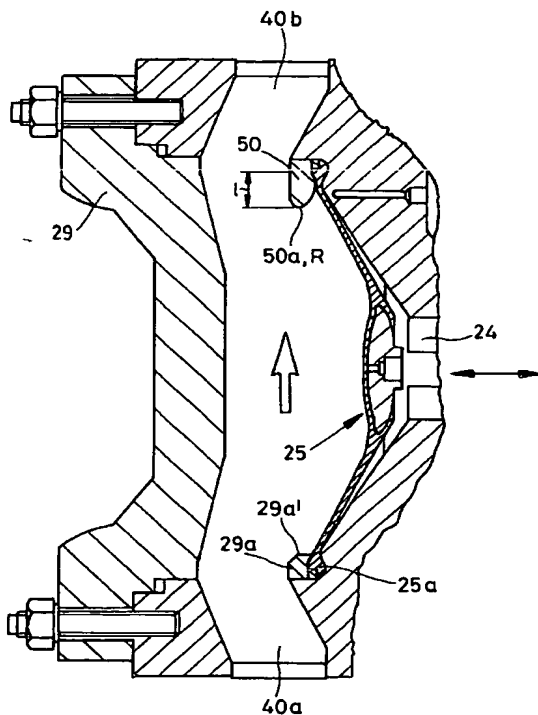
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[Continued on next page]

(54) Title: DIAPHRAGM PUMP



(57) Abstract: The invention relates to a diaphragm pump for pumping aggressive and/or abrasive media, such as slurries, comprising a diaphragm housing mounted in a substantially vertically disposed pipe system, which substantially vertically disposed pipe system comprises at least one inlet and at least one outlet positioned some distance above the inlet, as well as at least one substantially circular, flexible diaphragm, which diaphragm is movable within the diaphragm housing under the influence of a working liquid to be pressurised, in which the circular outer edge of the diaphragm is clamped down in the diaphragm housing by means of a circular clamping member. According to the invention, the diaphragm pump is characterized in that the circular clamping member is provided, on the circumferential edge thereof, with a flange that extends parallel to the plane formed by the clamping member. Since the circular clamping member is provided with a flange extending in the plane formed by the clamping member, disadvantageous deformation of the diaphragm during the delivery stroke will be prevented, because the deforming diaphragm will come to abut against the flange.

WO 2004/007961 A1

WO 2004/007961 A1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 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INTERNATIONAL SEARCH REPORT

PCT/NL 03/00497

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04B43/067 F04B43/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

8 October 2003

Date of mailing of the international search report

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Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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